



AMENDMENT TO THE SPECIFICATION

This listing of claims will replace all prior versions of claims in the application.

Listing of Claims:

1-47 (Previously Cancelled)

48-49 (Cancelled Herein)

50-55 (Previously Cancelled)

56. (Previously Presented) A substantially pure nucleic acid molecule having at least 95% sequence identity to SEQ ID NO: 1 and encoding a mammalian methionine synthase reductase polypeptide, wherein said polypeptide is capable of catalyzing the reductive methylation of methionine synthase-cob(II)alamin to generate methionine synthase-cob(III)alamin-CH₃.

57. (Previously Presented) The nucleic acid of claim 56, wherein said nucleic acid molecule has the sequence of SEQ ID NO: 1.

58. (Previously Presented) The nucleic acid molecule of claim 56, wherein said nucleic acid molecule encodes a human methionine synthase reductase polypeptide.

59. (Previously Presented) The nucleic acid molecule of claim 56, wherein said nucleic